NEW YORK STATE DEPARTMENT OF TRANSPORTATION

MATERIALS BUREAU

ALBANY, NEW YORK

MATERIALS INSPECTION MANUAL

PROJECT ORIENTED

BASED ON NYSDoT STANDARD SPECIFICATIONS

CONSTRUCTION AND MATERIALS, DATED JANUARY 3, 1978 (RED BOOK)

ISSUED MAY, 1978

Superseded

The purpose of this manual is to present in brief outline form the procedures used by the New York State Department of Transportation in determining the acceptability of materials arriving at project sites where work is being progressed under the administration of the Design and Construction Division.

Detailed information relative to these procedures will be found in the referenced specification and in Materials Methods or other documents as listed in the column of the following chart entitled "Related Instructional Procedures."

The appendices included with this manual are: 1) Examples of the acceptance stamps of the Inspection Agencies and, 2) The essential components included in a Certification.

Any questions that arise as to interpretation or meaning of these procedures should be directed to the Materials Bureau.

NOTE: The provisions of this manual are also, in general, applicable for projects let under the 1973 Specifications (Blue Book). Any problems in effecting such an application should be immediately communicated to the Materials Bureau Product Control Office at 518/457-5642.

NYSDOT
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50 Wolf Road, POD 34
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SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
701 HYDRAULIC CEMENTS		
701-01 Portland Cement	Materials Method 10.0-10.3	1. Appearance of Supplier's name on Approved List 7.42-2-15 a. Listed under "A" of that list 1. Bulk Cement - Cement Shipment certification, Form BR 280 2. Bagged Cement - Legend on each bag stating "MEETS NYSDOT SPEC." b. Listed under "B" of that List 1. Bulk Cement - Lead car seals plus Cement Shipment notice, Form BR 44 2. Bagged Cement - Legend as above plus Cement Shipment Notice, Form BR 44 2. Shipments received during non-inspection hours when permitted by Region office must be accounted for to the satisfaction of the inspector.
701-02 Masonry Cement		Legend on each bag stating conformance of contents to ASTM C91
701-04 Concrete Repair Material		Appearance of Brand name on Approved List 7.42-2-13
701-05 Concrete Grouting Material		Appearance of Brand name on Approved List 7.42-2-26
702 BITUMINOUS MATERIALS		
702-01 through 702-04	Materials Method 8.1	1. Certified shipment notice, Form BR 162 with each delivery 2. Subsequent to sampling the green copy of sample Form BR 170 overstamped "SAMPLE RECEIVED BY BUREAU OF MATERIALS" and returned to sampling location via Region office. This does not preclude material being later rejected on the basis of test results.
702-05 through 702-06	Materials Method 8.3	Producer's Certification
702-10 through 702-16	Materials Method 8.3	Producer's Certification
702-20 through 702-25	Materials Method 8.3	Producer's Certification
702-3001 through 702-3601	Materials Method 8.2	Same as 702-01
702-4001 through 702-4501	Materials Method 8.2	Same as 702-01
702-50 through 702-62	Materials Method 8.3	Producer's Certification
702-70 Synthetic Resin Binder		Contact Materials Bureau
702-71 Synthetic Resin Binder Liquid		Contact Materials Bureau

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
703 AGGREGATES		
703-01 Fine Aggregates	Materials Method 7.1	1. A Certification executed by the source stating that the aggregate supplied to the project or mix plant has been approved by the Department. The source name, source identification number and the current test number should be included in the Certification. 2. A Certification from the contractor or mix plant owner, as applicable, stating that the aggregate as identified in (1) above is the material used in the work. 3. Verification by the Regional Materials Engineer that the source is currently approved. *Special Note - At the option of the Regional Director, Delivery Tickets may be required for each shipment when aggregates are being received from more than one source and can not be differentiated by the Visual Identification Test. (Appendix G of Materials Method 9.1 to be published.)*
703-02 Coarse Aggregate	Materials Method 7.1	Same as 703-01, in addition: 1. The required Certifications should also indicate the NYSDoT size (s) furnished. 2. A gradation analysis by the Engineer.
703-03 Mortar Sand		Same as 703-01, in addition: 1. The Certifications should indicate the specific Materials Designation for the aggregate supplied (e.g., 703-03 Mortar Sand).
703-04 Grout Sand		See 703-03
703-05 Fine Aggregate for White Portland Cement Concrete		See 703-03
703-06 Cushion Sand		See 703-03
703-07 Concrete Sand		See 703-03
703-08 Mineral Filler		Producer's Certification indicating type of material and conformance to gradation requirements.
703-10 Lighweight Aggregate		Contact Materials Bureau
704 MASONRY UNITS		
704-01 Common Brick 704-02 Concrete Brick 704-03 Concrete Block 704-04 Concrete Block	E.I.75-8	A. Plant Inspected Material 1. Buff copy of Shipment Authorization Form BR-195 or Shipment Certification From BR-97 with each delivery. 2. Validated Green copy of Form BR-195 or Validated Form BR-97 for each delivery. B. Project Inspected Material 1. Validated Sample & Acceptance Transmittal Form BR-240 (6 full-size blocks or 10 full-size bricks, required as a sample).
704-06 Precast Concrete Cribbing	Materials Method 16	1. Shipment Certification Form BR-97 with each delivery. 2. "NYS DoT Accepted" stamped on each unit.
704-07 Precast Transverse Concrete Drainage Interceptors	Materials Method 16	3. Validated copy of Form BR-97 subsequent to shipment.

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
704-10 Split Faced Concrete Brick		A. Plant Inspected Material 1. Shipment wrapped per specification. 2. Buff copy of shipment authorization, Form BR-195. 3. Validated green copy of Form BR-195. B. Project Inspected Material 1. Shipment wrapped per specification. 2. Submit to Materials Bureau 10 full size units wrapped as described in specification. 3. Acceptance action on Sample & Acceptance Transmittal, Form BR-240.
704-11 Precast Concrete Coping	Materials Method 16	See 704-06
704-12 Decorative Concrete Block		See 704-10 Except that when project site sampling is necessary the number of speciments shall be as described in the specification.
705 JOINT MATERIALS		
705-01 Preformed Cork Joint Filler		Manufacturer's Certification
705-03 Preformed Rubber Joint Filler		Manufacturer's Certification
705-05 Plastic Joint Material		Manufacturer's Certification
705-06 Caulking Compound for Structures		Manufacturer's Certification
705-07 Premoulded Bituminous Joint Filler		1. Manufacturer's Certification to ASTM D1751 plus Supplier's Certification when supplied by other than the manufacturer. 2. Tag on each bundle identifying manufacturer and supplier.
705-09 Preformed Elastic Bridge Joint Sealer	Materials Method 3	1. Each packaged unit labeled with all of the following: a. NYSDoT Materials Designation b. Lot Number c. Test Number d. Date of Acceptance e. Date of Manufacture f. Footage g. Manufacturer's name and address 2. Intact Department Security Seals a. Carton - Four red tape mylar seals (two on top flaps and two on bottom) plus two green tape mylar seals affixed to the side of the carton containing the labeling information. b. Small Reel - Two red and two green tape mylar securing the ends of the encircling cardboard covering OR if metal bands are used to hold cardboard covering in place, sealed as described below. c. Telephone Cable Reel - One red and one green tape mylar seal across each metal band securing the cardborad covering. d. Pallet - Two red and two green tape mylar seals across the metal bands securing the contents or covering.

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
705 JOINT MATERIALS		
705-09 Preformed Elastic Bridge Joint Sealer (continued)	Materials Method 3	*Special Note - It is permissible to transfer cable reels and pallets of joint sealer between projects. Mylar tape seals should be present in a manner described above when the material is delivered to the first Department project but do not have to be present on subsequent projects receiving the material. Transferred material should be received accompanied by a letter from the Engineer of the project previously using the material. The letter should state that the material was received at the first project properly sealed and should also contain an estimate of the amount remaining on reel or pallet.*
705-10 Preformed Elastic Longitudinal Joint Sealer	Materials Method 3	See 705-09 (Telephone cable reels not permitted by Materials Method)
705-11 Polyvinyl Chloride Extruded Shapes & Sheet Material	Materials Method 17	1. Department's red metal seal and green metal seal affixed to each length by means of a wire passing through the length. Each carton of foam inserts for Type E are sealed with red and green mylar tape seals. 2. Manufacturer's name, lot number and PVC shape or type imprinted on each length. In addition the test number shall also appear on each length or on a tag attached to the length.
705-12 Preformed Elastic Transverse Contraction & Expansion Joint Sealers	Materials Method 3	See 705-09
705-13 Lubricant for Preformed Elastic Joint Sealer		Manufacturer's Certification. (Usage shall be with 270 days of date of manufacture as marked on each container.)
705-15 Transverse Joint Supports		
Transverse Joint Support Elements and Assemblies		Appearance of the transverse joint support on the Standard Sheets OR Approval by the Deputy Chief Engineer (Facilities Design.)
Transverse Joint Support Mechanical Implantation Procedures		Appearance of the procedure on the Approved List of Mechanical Implantation Procedures OR Approval by the Deputy Chief Engineer (Construction).
705-20 Mortar for Stone Curbs		Inspection by Project Staff
705-21 Mortar for Concrete Masonry		Inspection by Project Staff

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
706 CONCRETE, CLAY & FIBER PIPE		
706-01 Non-Reinforced Concrete Pipe	Materials Method 1	1. Each pipe length marked on barrel with following: a. Name or trademark of manufacturer b. Date of manufacture c. "NYS Lot Number_____" d. Diameter and Class e. Per ASTM C-76 Wall Designation *Special Note - Class and wall designation do not apply to non-reinforced pipe, end sections, manhole sections, cattle pass, leaching basins and porous pipe.* 2. Shipment Certification, Form BR-97 with each delivery 3. Validated copy of Form BR-97, (if not recieved within three weeks after arrival of shipment, notify Materials Bureau).
706-02 Reinforced Concrete Pipe	Materials Method 1	See 706-01 (Except that for pipe 18" and above, markings shall be on inside of barrel).
706-03 Reinforced Concrete Elliptical Pipe	Materials Method 1	See 706-02
706-04 Precast Reinforced Concrete Manhole Units	Circular Units, Materials Method 1	See 706-02
	Square & Rectangular Units Materials Method 16	Contact Materials Bureau
706-05 Porous Concrete Pipe Underdrain	Materials Method 1	See 706-01
706-06 Extra Strength Concrete Pipe Underdrain	Materials Method 1	See 706-01
706-07 Reinforced Concrete Pipe End Sections	Materials Method 1	See 706-01
706-08 Vitrified Clay Pipe Storm Drains	Materials Method 1	Manufacturer's Certification
706-09 Vitrified Clay Pipe Underdrain		Manufacturer's Certification
706-10 Asbestos Cement Sewer Pipe		Manufacturer's Certification
706-11 Perforated Asbestos Cement Pipe Underdrain		Manufacturer's Certification
706-12 Asbestos Cement Storm Drain Pipe		Manufacturer's Certification *Special Note - Storm drain lengths may be joined by plastic couplings. Such couplings must be accompanied by a manufacturer's certification that the resin used in the manufacture of the couplings meets ASTM D1248, Type I, Category 3, Class B.*

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
707 METAL PIPE		
707-01 Cast Iron Pipe		Manufacturer's Certification
707-02 Round Corrugated Steel Pipe & Pipe Arches	Materials Method 12	1. Appearance of supplier's name on Approved List 7.42-2-12 2. Supplier's Certification with each shipment
707-03 Ductile Iron Pipe (Non-Pressure)		Manufacturer's Certification
707-04 Ductile Iron Pipe (Pressure)		Manufacturer's Certification
707-07 Steel Pipe Underdrain	Materials Method 12	See 707-02
707-09 Corrugated Structural Steel Plate for Pipe, Pipe arches and Underpasses	Materials Method 12	See 707-02
707-10 Galvanized Corrugated Steel Headwalls & End Sections		See 707-02
707-12 Perforated Corrugated Aluminum Pipe Underdrain		Contact Materials Bureau
707-13 Round Corrugated Aluminum Pipe, Pipe Arches & End Sections		Contact Materials Bureau
707-14 Corrugated Aluminum Structural Plate for Pipe and Pipe Arches		Contact Materials Bureau
707-16 Smooth Lined Corrugated Steel Pipe		1. Appearance of fabricator's name on Approved List 7.42-2-12 2. Fabricator's Certification with each shipment *Special Note - The thickness of metal for the corrugated shell, metal liner and thickness of protective coating, if required, shall be as shown on the plans or as determined by the Deputy Chief Engineer, Facilities Design.*
707-17 Smooth Lined Corrugated Aluminum Pipe		Contact Materials Bureau
708 PAINTS		
708-01 Paints - General		Not applicable
708-02 through 708-24 Various Paints	Materials Method 6	1. Intact red and green metal seals 2. Label information as follows: a. Name of product b. Materials Designation number c. Lot Number d. Batch Number e. Test Number f. Name and location of manufacturer g. Date of manufacture h. Date of acceptance i. Date of Expiration of Acceptance j. Weight per gallon (Not required for 708-22 - White Curb Paint)

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
708 PAINTS		
708-30 Wood Preservative - Cresote Oil		When shop inspected - Report of shipment of structural material, Form B&GC4 When NOT shop inspected - Manufacturer's Certification
708-31 Wood Preservative Water Borne		See 708-30
708-32 Wood Preservative Oil Borne		See 708-30
709 REINFORCING STEEL		
709-01 Bar Reinforcement Grade 60	Materials Method 2 & 2.1	A. For bars manufactured at Rolling Mills on Approved List 7.42-2-18 1. Reinforcing Bar Shipment Certification issued by fabricating shop for each shipment 2. Conformance of bar markings with those displayed under Appendix 1 of Approved List *Special Note - Project staff is responsible for a period of one year from the date of issuance to assure that rejected heat numbers as issued and circulated by the Materials Bureau are not included on these Certifications.* B. For bars manufactured at Rolling Mills NOT on Approved List 7.42-2-18 1. Buff copy of Shipment Authorization, Form BR-195 with each shipment 2. Validated green copy of Shipment Authorization, Form BR-195 subsequent to receipt of shipment. 3. Steel Reinforcement Tags, Form BR-131 attached throughout the bundles in the shipment *Special Note - Under B, reshipments of bars to a project site by a sign fabrication shop are accepted on the basis of a certification executed by the sign shop indicating that the BR-195 is on file at the sign shop and restating all of the identifiying information, including test numbers, contained on the BR-195.*

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
709 REINFORCING STEEL		
709-02 Wire Fabric For Concrete Reinforcement	Approved List 7.42-2-23 Materials Method NY 4 E. I. 74-10	A. Pavement fabric as described on Standard Sheet 502-1 (pay item no. 502.10 and 502.11) 1. Appearance of the manufacturing plant on Approved List 7.42-2-23 2. Certification with each shipment B. Fabric for all other uses & pavement fabric from manufacturers not on Approved List 7.42-2-23 1. Shipment Certification Form BR-97 arriving with each shipment 2. Steel Reinforcement Tag Form BR-131 attached throughout the fabric in the shipment 3. Validated copy of the Form BR-97 arriving subsequent to the shipment *Special Note - Fabric arriving at the project site without proper documentation should be job sampled. The size of the sample submitted is described in Materials Method NY 4. The fabric should not be used until a Form BR-240 acceptance is received from the Materials Bureau*
709-03 Bar Reinforcement Grade 40	Materials Method 2	1. Buff copy of Shipment Authorization, Form BR-195 with each shipment 2. Validated green copy of Shipment Authorization, Form BR-195 subsequent to receipt shipment 3. Steel Reinforcement Tag Form BR-131 attached throughout the bundles in the shipment *Special Note - Re-shipments of Bars to a project site by a sign fabrication shop are accepted on the basis of a certification executed by the sign shop indicating that the BR-195 is on file at the sign shop & restating all of the identifying information, including test numbers contained on the BR-195.*
709-04 Epoxy Coated Bar Reinforcement, Grade 60	E. I. 77-25	1. Form BR-195,Shipment Authorization stamped by the Inspection Agencies. (Test Number, Lot Number and Materials Bureau Validation not required) 2. Inspection Agency Tag affixed to each bundle of bars 3. Certification for the epoxy coating 4. Certification from the Applicator's of the epoxy coating 5. All requirements for Evidence of Acceptability of 709-01
709-05 Stud Shear Connectors		Manufacturer's Certification
709-06 Prestressing Steel		A letter from Deputy Chief Engineer Structures indicating acceptance of specific reels.
709-07 Stone Curb Anchor Bars		Manufacturer's Certification

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
710 FENCE & GUIDE RAIL		
710-01 Aluminum Fence Fabric	Materials Method 21	A. Pre-sampled at manufacturing or storage locations off project site 1. One red metal seal and one green metal seal affixed to each roll B. All other fabric 1. One full-height sample, one foot wide to be taken by project staff and submitted for test to Materials Bureau 2. Acceptance action on Sample and Acceptance Transmittal, Form BR-240 *Special Note - Dimensional compliance of all fabric is responsibility of project staff.*
710-02 Galvanized Steel Fence Fabric	Materials Method 21	See 710-01
710-03 Vinyl Coated Steel Fence Fabric	Materials Method 21	See 710-01
710-04 Aluminum Coated Steel Fence Fabric	Materials Method 21	See 710-01
710-10.01 Steel & Iron Posts Rails,Braces & Fittings for Chain Link Fence		1. Manufacturer's Certification for Compliance 2. Dimensional check by project staff
710-11 Aluminum Posts, Rails, Braces & Fittings for Chain Link Fence		A. Posts, rails, braces 1. One two-foot length submitted to Materials Bureau for test plus dimensional check by project staff 2. Acceptance action on Sample and Acceptance Transmittal, Form BR-240 B. Fittings 1. Sample of one of each item (except Post Caps) submitted to Materials Bureau for test plus dimensional check by project staff 2. Acceptance action on Sample and Acceptance Transmittal, Form BR-240
710-12 Plastic Coated Posts, Rails, Braces & Fittings for Chain Link Fence		1. Manufacturer's Certification for compliance 2. Dimensional check by Project staff
710-13 Wood Posts		Manufacturer's Certification
710-20 Corrugated Beam Guide Railing & Mall Barrier 710-21 Box Beam Guide Railing & Median Barrier 710-22 Cable Guide Railing	Materials Method 14 EI 77-40 Approved List 7.42-2-32	1. For installation, the appropriate Materials Certification (as listed below) completed by the erector. 2. For payment, a facsimile copy of the Materials Certification stamped "Receipt Acknowledged by the Materials Bureau." 3. In addition, rail sections of box beam guide rail and median barrier also require a validated Form BR-240 showing the Manufacturer and heat number matching the Manufacturer's symbol and the heat number stamped into the rail. BR-335 Box Beam Guide Railing Materials Cert. BR-336 Heavy Post Blocked-Out Corrugated Beam Guide Railing and Median Barrier Materials Cert. BR-337 Box Beam Median Barrier Materials Cert. BR-338 Corrugated Beam Guide Railing and Mall Barrier Materials Cert. BR-339 Cable Guide Railing Materials Cert.

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
710 FENCE & GUIDE RAIL		
710-23 Steel Bridge and Culvert Railing		Report of shipment of Structural Material, Form B&GC4, and appearance of Inspection Agency Stamp on members.
710-24 Aluminum Bridge Railing		Contact Structures Subdivision
710-30 Right-of-Way Fencing	Materials Method 21	A. Fabric 1. Presampled off Project Site a. One red metal seal and one green metal seal affixed to each roll 2. Not Presampled a. Sample consisting of three pieces each of horizontal and vertical wire, each 8" long, per contract quantity per supply source submitted to Materials Bureau for test b. Acceptance action on Sample and Acceptance Transmittal, Form BR-240 B. Posts & Fittings 1. Manufacturer's Certification *Special Note - Dimensional compliance of all fabric responsibility of project staff.*
711 CONCRETE CURING MATERIALS & ADMIXTURES		
711-01 Waterproof Paper Blankets		Manufacturer's Certification
711-02 Quilted Covers		Manufacturer's Certification
711-03 Polyethylene Coated Burlap Blanket		Manufacturer's Certification
711-04 Polyethylene Curing Covers (White Opaque)		Manufacturer's Certification
711-05 Membrane Curing Compound		Appearance of Manufacturer's name on Approved List 7.42-2-6
711-07 Form Insulating Materials For Winter Concreting		Appearance of Manufacturer's name on Approved List 7.42-2-10
711-08 Admixtures		A. Air-entraining agents Appearance of manufacturer's name on Approved List 7.42-2-1 B. Water-Reducing and Retarding Admixtures Appearance of manufacturer's name on Approved List 7.42-2-2 C. Water-Reducing Admixtures Appearance of manufacturer's name on Approved List 7.42-2-9
711-09 Emulsified Carbon Black	Materials Method 19	Intact red metal seal and green metal seal on each container. Any openings other than cover must be sealed with red tape mylar seal.

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
712 MISCELLANEOUS		
712-01 Water		A. Municipal water supplies are considered acceptable. B. Submits samples of doubtful quality Acceptance Action Form BR-240.
712-02 Calcium Chloride	Materials Method 13	1. Packaged in moisture proof bags of not more than 100 lbs. each OR in air-tight drums of not more than 450 lbs. each OR in tank cars, covered hopped cars, or covered trucks. 2. Labeled with: a. Name of manufacturer b. Net weight of contents c. Percentage of calcium chloride ($CaCl_2$) guaranteed by manufacturer
712-03 Sodium Chloride		Manufacturer's Certification
712-04 Hydrated Lime		Manufacturer's Certification
712-05 Precast Concrete Right-of-Way Markers		Manufacturer's Certification
712-12 Asphalt Roofing Felt		Manufacturer's Certification
712-13 Timber and Lumber		Engineer's Inspection
712-14 Stress Graded Timber and Lumber		1. Branded with stress grade mark 2. Manufacturer's Certification of inspection conforming to ASTM D245
712-15 Gabions		Manufacturer's Certification
712-16 Pigment for Colored Synthetic Resin Binder Concrete		Contact Materials Bureau
712-17 Wood Cross Ties		Contact Materials Bureau
713 LANDSCAPE ITEMS		
All Items		Administered by Landscaping Bureau
714 CURBING & GUTTER		
714-01 Stone Curb		1. Appearance of source on Approved List 7.42-2-24 2. Sources not on Approved List must be sampled and submitted to Materials Bureau for test
714-04 Precast Concrete Curb	Materials Method 16	1. Form BR-97 with each shipment 2. Validated copy of Form BR-97 subsequent to shipment 3. "NYSDoT ACCEPTED" stamped on each unit
714-05 Hydraulically Pressed Precast Concrete Curb		See 714-04
714-06 Asphalt Concrete Curb		Refer to Section 401 of Specifications
714-07 Precast Concrete Gutter	Materials Method 16	See 714-04

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
715 CASTINGS FORGINGS & METALS		
715-01 Structural Steel	See Appendix 1	A. Material under shop inspection 1. "Report of shipment of Structural Material," Form, B&GC4 2. Acceptance stamp of inspection agency B. No shop inspection 1. Certified Test Results
715-02 Steel Castings		See 715-01
715-03 Aluminum Castings		See 715-01 except for fence items which are governed by 710-11
715-04 Wrought Aluminum		A. Bridge Railing: Report of shipment of structural material, Form B&GC4 B. Fencing Items: See 710-11 C. All other work: Manufacturer's Certification
715-05 Iron Castings		A. Roadway Drainage items: Manufacturer's Certification B. Fencing Items: See 710-11 C. All other itmes: 1. Under ship inspection: "Report of shipment of structural materials," Form B&GC4 2. No shop inspection: Certified Test Results
715-06 Steel Forgings		See 715-05
715-09 Malleable Iron Castings		See 715-05
715-11 Metal Bin Type Retaining Wall		1. Manufacturers certified test results and guarantee 2. Engineer's inspection
715-13 Prefabricated Adjustment Rings for Manholes		Engineer's Inspection
715-14 High Strength Bolts, Nuts & Washers		1. Certified physical and chemical test results with each shipment. The manufacturers quality control lot numbers as printed on the kegs or boxes must appear on these test result documents 2. Project staff must verify the test results as meeting specification requirements 3. Sample and submit to Materials Bureau, two bolts from each control lot for the critical connections enumerated under "Test & Acceptance" paragraph of the specification. Only 1 control lot per Form BR-240. 4. Acceptance on Sample and Acceptance Transmittal, Form BR-240 for each control lot OR memo from Structures Subdivision indicating acceptance.
715-15 Pins and Rollers		1. Certified Test Results 2. Dimensional Compliance

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
715 CASTINGS FORGINGS & METALS		
715-16 Stainless Steel Connecting Products	E. I. 73-30	A. Plant Inspected Material 1. Buff copy of Shipment Authorization, Form BR-195 with each delivery 2. Validated green copy of Form BR-195 subsequent to delivery 3. Check for stamped markings as required by E. I. 73-30. (U bolts may be tagged in lieu of stamping) B. Project Inspected Material 1. Sample per E. I. 73-30 2. ONLY 1 UNIQUE SAMPLE (3 sets) TO EACH FORM BR-240 3. Acceptance on Sample and Acceptance Transmittal, Form BR-240 for each unique set OR memo from Structures Subdivision indicating acceptance.
716 BEARINGS & EXPANSION PLATES		
716-02 Plain Elastomeric Bridge Bearings	Materials Method 23 See Appendix 1	1. Buff copy of Shipment Authorization Form BR-195 with each delivery 2. Validated green copy of Form BR-195 subsequent to delivery 3. Double Inspection Agency Stamp or one Inspection Agency Stamp with 1 "NYSDoT Accepted" stamp on each unit
716-04 Steel Laminated Elastomeric Bridge Bearings	See 716-02	See 716-02
716-05 Self-Lubricating Bronze Plates		Manufacturer's Certification
717 CONCRETE PROTECTIVE COATINGS		
717-01 Epoxy Resin Protective coating	Materials Method 15	1. Red and Green metal or tape seals, (Type of seal determined by product packaging and/or container opening). When cans are cartonized 2 red tape seals and 2 green tape seals are affixed to that side of the carton containing the label information such that the label cannot be removed without destroying the tags. 2. Labeling as detailed in Specification.
717-02 Bituminous Epoxy Protective Coating	Materials Method 15	See 717-01 *Special Note - This material may be delivered in bulk in a specially designed Broyhill applicator truck with seals attached to all top hatches and pump inlet lines. The truck is accompanied by a Form BR-195 (Buff card copy) containing all the normal labeling information, plus the quantity in the truck. For transfer shipments from one NYSDoT project to another, the truck must be accompanied by a letter from the EIC of the first project stating all the information as found on the original BR-195, plus the quantity still in the truck. Security seals may have to be broken to accommodate application procedures once at a project site. This may may be done only with the approval of a Project Inspector.*

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
718 PRESTRESSED CONCRETE UNITS (STRUCTURAL)		
718-01 Prestressed Concrete Units (Structural)	See Appendix 1	1. Presence of Report of Shipment of Structural Materials, Form B&GC4 2. Shop inspectors stamp of approval on each unit
718-02 Prestressed Concrete I Beam Units		See 718-01
718-03 Prestressed Concrete Box Beam Units		See 718-01
718-04 Prestressed Concrete Hollow Slab Units		See 718-01
719 METAL COATINGS		
719-01 Galvanized Coatings and Repair Methods		Covered under particular item being coated
719-02 Aluminum Anodic Coatings		See 719-01
719-03 Aluminum Coating (Hot Dip)		See 719-01
720 PILES		
720-01 Untreated Timber Piles		Shop inspectors stamp of approval
720-02 Creosoted Timber Piles		See 720-01
720-03 Castings for Cast-In-Place Concrete Piles		Manufacturer's Certification
720-04 Steel Bearing Piles		Manufacturer's Certification in duplicate
720-05 Pile Shoes		Approval by Deputy Chief Engineer (Structures Subdivision)
720-06 Steel Splices		See 720-04
721 CONCRETE ADHESIVES AND REPAIR MATERIALS		
721-01 Epoxy Resin System	Materials Method 15	See 717-01
721-02 Epoxy Polysulfide Binder	Materials Method 15	See 717-01
721-03 Epoxy Polysulfide Grout	Materials Method 15	See 717-01
721-05 Epoxy Repair Paste	Materials Method 15	See 717-01

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPATBILITY
723 LIGHTING		
723-01 Light Standard (Aluminum)		Manufacturer's Certification
723-10 Anchor Base (Aluminum)		See 723-01
723-15.01 Breakaway Transformer Base		Appearance of manufacturer's name on Approved List 7.42-2-25
723-20 Rigid Steel Conduit, Zinc Coated		See 723-01
723-21 Asbestos Cement Conduit-Type II		1. Manufacturer's Certification 2. Each length marked with manufacturer's name, trade name and nominal size
723-22 Asbestos Cement Conduit-Type I		See 723-21
723-23 PVC Coated Galvanized Steel Conduit		See 723-01
723-24 Flexible Conduit		See 723-01
723-25 Alloy Steel Pipe Conduit (Exposed Areas)		See 723-01
723-30 Mercury Vapor Luminaires (Standard Mount)		See 723-01
723-31 Mercury Vapor Luminaires (Underbridge Mount)		See 723-01
723-32 Fluorescent Luminaires (Underbridge Mount)		See 723-01
723-40 Cast Iron Junction Box		See 723-01
723-45 Precast Reinforced Concrete Pullboxes		Manufacturer's Certification
723-50 Photoelectric Control		See 723-01
723-60 Anchor Bolts		Manufacturer's Certification
723-70 Multiple Lighting Wire		1. Manufacturer's Certification 2. Evidence of Underwriter's Laboratory Approval
723-75 Ground Wire		See 723-70
724 TRAFFIC SIGNALS		
All Items		Administered by Traffic and Safety Division
725 MISCELLANEOUS METALS & PLASTICS		
725-01 Copper Flashing		Manufacturer's Certification
725-02 Steps for Manholes		Manufacturer's Certification

SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
727 PAVEMENT MARKING MATERIALS		
727-01 White Thermoplastic Reflectorized Pavement Markings		A. Thermoplastic Material 1. Red and green tape seals on each carton or double Inspection Agency Stamp on each bag 2. Form BR-97 with each delivery (unvalidated) B. Glass Spheres 1. Manufacturer's Certification *Special Note - Should seals not be broken upon opening of the unit, the Engineer must see that the seals are destroyed.*
727-02 Yellow Thermoplastic Reflectroized Pavement Markings		See 727-01
7.27-01.01 White & Yellow Thermoplastic Reflectorized Pavement Markings	Appendix 1	See 727-01
727-03 White Pavement Marking Paints		Appearance of manufacturer's name on Approved List 7.42-2-21
727-04 Yellow Pavement Marking Paints		Appearance of manufacturer's name on Approved List 7.42-2-22
727-05 Glass Beads for Reflectorized Pavement Marking Paints		Appearance of manufacturer's name on Approved List 7.42-2-20
728 VERTICAL LOAD TRANSMITTING DEVICES		
728-01 Rubber Impregnated Woven Cotton Fabric		Manufacturer's Certification
728-02 Rubber Impregnated Random Fiber Pad		Appearance of manufacturer's name on Approved List 7.42-2-19
728-03 Plain Rubber Pad		1. One full sample per size submitted by Engineer to Materials Bureau 2. Acceptance action on Form BR-240
728-04 Sheet Lead		Manufacturer's Certification
728-05 Canvas and Dull Orange Primer		Engineer's approval
728-06.01 Asbestos Sheet Packing (Treated Both Sides)		Manufacturer's Certification

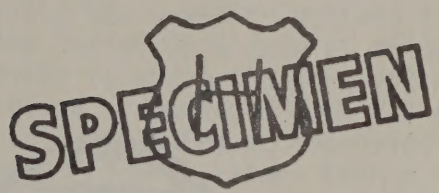
SPECIFICATION	RELATED INSTRUCTIONAL PROCEDURE	EVIDENCE OF ACCEPTABILITY
730 SIGNS & DELINEATORS		
730-01 Aluminum Sign Panels		Manufacturer's Certification
730-02 Plywood Sign Panels		Manufacturer's Certification
730-05.01 Reflective Sheeting (Class A)		Manufacturer's Certification
730-05.02 Reflective Sheeting (Class B)		Manufacturer's Certification
730-10 Acrylic Plastic Reflex Reflectors for Types I & II Sign Characters		Manufacturer's Certification
730-11 Reflectroized Sheeting Sign Characters (Type III)		Manufacturer's Certification
730-12 Reflectorized Sheeting Sign Characters (Type IV)		Manufacturer's Certification
730-13 Relfectorized Sheeting Sign Characters (Type V)		Manufacturer's Certification
730-14 Reflectorized Sheeting Sign Characters (Type VI)		Manufacturer's Certification
730-20 Sign Posts and Footings		Manufacturer's Certification
730-22 Stiffners, Overhead Brackets and Miscellaneous Hardware		Manufacturer's Certification
732 DRILLING		
All Items		Administered by Soils Bureau
735 CONCRETE CYLINDER CURING BOX		
735-01 Concrete Cylinder Curing Box		Approved by Engineer in charge
736 PERMANENT CORRUGATED METAL FORMS FOR BRIDGE SLABS		
736-01 Permanent Corrugated Metal Forms for Bridge Slabs		1. Manufacturer's certification to ASTM A446 2. Conformance to Approved Shop Drawings

APPENDIX 1

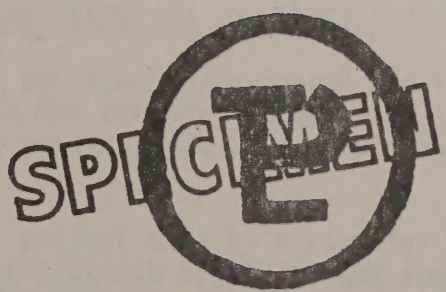
EXAMPLES OF ACCEPTANCE STAMPS OF THE INSPECTION AGENCIES

In this manual an acceptance stamp of the Inspection Agency is mentioned in regard to the "Evidence of Acceptability" of various materials received at the project site; e.g. item 715-01 Structural Steel, 716-02 and 716-04 Elastomeric Bridge Bearings. Currently, the three Inspection Agencies we employ are The Robert W. Hunt Company, Pittsburgh Testing Laboratory (PTL) and Jersey Testing Laboratory (JTL). To help you identify their acceptance stamps, below are the stamp(s) for each Agency.

THE ROBERT W. HUNT COMPANY



PITTSBURGH TESTING LABORATORY



JERSEY TESTING LABORATORY

(NUMBER MAY VARY)

(LETTER MAY VARY)

The stamps shown above are "typical" for each Agency. Stamps on material received should be similar to but may vary slightly from any one of those shown. However, if the stamp on the material is not similar to those shown, the Materials Bureau via the Region Materials Office should be contacted to verify the acceptability of the material.

CERTIFICATIONS

Throughout this Manual references are made to a "Manufacturer's Certification" as an evidence of acceptability of specific materials or products.

Such a document can properly be executed only by a manufacturer or producer.

When shipments are made directly to a project site by the manufacturer or producer the essential components of a MANUFACTURER'S CERTIFICATION include:

1. IDENTIFICATION OF THE MANUFACTURER OR PRODUCER

   Name of company and the address of its manufacturing or producing facility. The brand name of the material or product should also be included if different than the name of the company.

2. IDENTIFICATION OF THE MATERIAL OR PRODUCT

   Generic name of the material or product.

3. IDENTIFICATION OF THE SHIPMENT

   Sufficient detail to describe the quantity content of the shipment and its project destination including a date of shipment and adaquate identification of the vehicle in which the shipment was made. When material is received in crated or packaged from via common carrier the serial number of the bill of lading accompanying such shipment should be the identification criteria rather than a vehicle identification.

4. STATEMENT OF CONFORMANCE

   A definitive statement that the material contained in the shipment meets the requirements of the Department Specification under which it is to be used or a specific specification of another agency as stated in the Department Specification (i.e. - ASTM, AASHTO, etc.)

5. IDENTIFICATION OF PERSON EXECUTING THE CERTIFICATION

   The certification must be signed by a person who identifies himself as being connected with the company indicated by a statement or title of his position in the company. It is not necessary that such a signature be notarized.

When the shipment is made to a project site by a supplier other than the manufacturer or producer, the MANUFACTURER'S CERTIFICATION should include all numbered items above except #3 "Identification of the Shipment" which will not in all cases be applicable to the supplier's shipment. In these cases a separate CERTIFICATION must be executed by the supplier identifying the shipment as detailed in #3 above and attached to the manufacturer's certification.

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